

# CIS 425 – Enterprise Web Technologies

## Team Project

Total Points: 100

(User Interface: 20, Presentation: 20, Implementation: 60)

### Purpose

To bring together your acquired skills from the HTML, CSS, and JavaScript subjects areas into one publically available Web site. It will require your team to explore/research new topics to accomplish portions of this project.

### Description

Your Web development firm (i.e. your team) is going to utilize its skills to help out a local business (i.e. your chosen business cannot be a fictitious (non-existing) business). To that end, select a small business (your “Client”) which has no (or minimal) presence on the Web and create an informational Web site containing, at the minimum, the following web pages:

- A. **Home/Landing Page** – This is the main entry point for the site. It will display the Client’s name and logo as well as a brief description of the client’s business. This page will have a set of navigational links to the other pages. You may add any other item of interest to this page.
- B. **Contact Page** – This page would let the user/visitor know how to contact the business via phone, email, in-person (i.e. address), and social media (Facebook, Twitter, Instagram, yelp, and Linked-In). For social media, simply have their respective icons/logos link to the site’s homepage. Use an iFrame to include/embed a Google Map of the business location on this page.
- C. **Products/Services Page** – The current selection of the products or services that the business offers should be on display here. Each product/service should be accompanied by a brief description (including its price/fee) as well as an image. A form element should be used to allow the user/visitor to select at least one product/service (possibly using dropdown list(s)). The product/service should be selected by ID or Name. Once a selection is made, the user/visitor should be informed of the total cost: product’s/service’s cost + applicable tax (7%) + shipping/processing fee (1%).

The styling of the Website is left to your team’s creative abilities. However, all pages should have the same “look-and-feel”. Your team will implement this Website using HTML, CSS, JavaScript, along with MySQL database management system.

A MySQL “skeletal” database will be made available to your team (under your group’s name). You will use MyWebSQL application to add the following table to your team database:

**Table: ProductService**

Column Name	Data Type	Sample
RecNumber	int [helps to set this as Auto Increment]	1, 2, 3, ...
ID	varchar(10) [product or service unique ID]	25, XN76, 000123, 00-ZX-942, ...
Name	varchar(50)	Tire, Headlight, Fishing Rod, Sweater, Shirt, ...
Description	varchar(150)	(choose your own product/service descriptions)
Cost	currency or decimal	9.99, 24.99, 100.00, ...

Once your “ProductService” table has been created, populate it with information for at least five (5) products or services from your client’s business. For example, you may want to store info about “auto parts” from an Automotive Store, “toys” from a Toys Store, “furniture” from a Furniture Store, “clothing, shoes, etc.” from a Clothing Store, “electronics, computers, music, etc.” from an Electronics Store, “sports and outdoors” from a Sporting Store, or “everything from soup to nuts” from a place like Amazon (or just surprise me!). The information on your Products/Services page must come from your “ProductService” table.

Additionally, your team will develop a Node.js Web server that will “publically” serve your multipage website. Your Web server, must be able to serve pages/files of type HTML, CSS, JavaScript, and images (that are deployed in your site).

## Deliverable

- ❖ **Design/User Interface Phase (20 points):** Each team will submit a preview of their Home and Contact pages (zipped as “*yourTeamName\_UserInterface.zip*”). The preview may be a preliminary form of a Web page (displayed in a browser window) or it may be an electronic diagram of each page (i.e. Visio, Glyph, or Word). No hand-written form will be accepted. Either way, make a screenshot of each page and place them in a MS Word document (clearly identify each screen shot by adding a proper label for each, i.e. do not rely on the page content for identification). Your site does not need to be operational at this stage; it just needs to have its user interface developed. There is no limit as to how many pages can be included in your site. After submitting your “User Interface” portion, you should not make major/substantial modifications to your user interface pages.
- ❖ **Presentation Phase (20 points):** Your entire team will be demonstrating the functionality of your site to the class. All team members must be present and participate in the presentation process. Your site needs to be fully operational at this time. The sequence of demonstration will be as follows:
  1. Introduce your team using a single page PowerPoint slide containing the name of your team and all its members, along with an image of your sites’ Home page, as well as a group “selfie”! [Provide a printed copy of your “Introductory” page/slide to your professor before presentation begins.]
  2. Execute/Run your Node.js Web server to make your site available
  3. Visit your *Home/Landing* page using the “localhost:portnumber” address for your Node.js Web server
  4. Navigate to the *Products/Services* page and display all your products and/or services
  5. Select at least two different products or services and display their total cost
  6. Navigate to the *Contact* page
  7. Finally, if available, display the current actual site of your chosen local business (for comparison purposes only, not used for grading).

Each team will submit their “Introductory” PowerPoint file (“*yourTeamName\_Presentation.pptx*”).

- ❖ **Implementation Phase (60 points):** Each team will submit a single zipped file (“*yourTeamName\_Implementation.zip*”) containing all the files from your project.